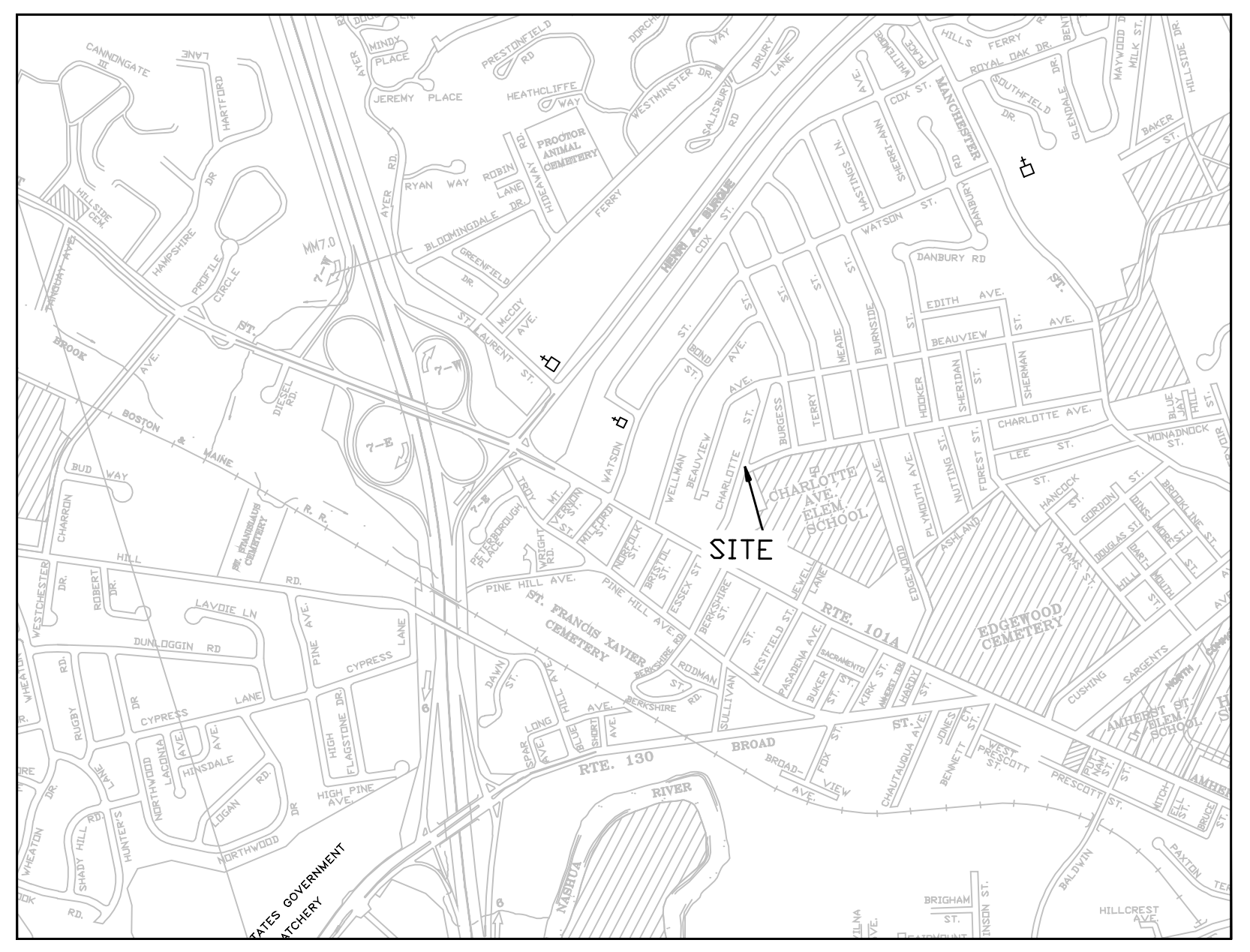




CITY OF NASHUA, NEW HAMPSHIRE

2012 INTERSECTION IMPROVEMENTS



LOCUS MAP
SCALE: 1" = 1000'

LIST OF DRAWINGS

- | | |
|---|---------------------|
| 1 | COVER SHEET |
| 2 | EXISTING CONDITIONS |
| 3 | SIDEWALK DESIGN |
| 4 | DETAIL SHEETS |

MAYOR

HONORABLE: DONNALEE LOZEAU

DIRECTOR OF PUBLIC WORKS

LISA FAUTEUX

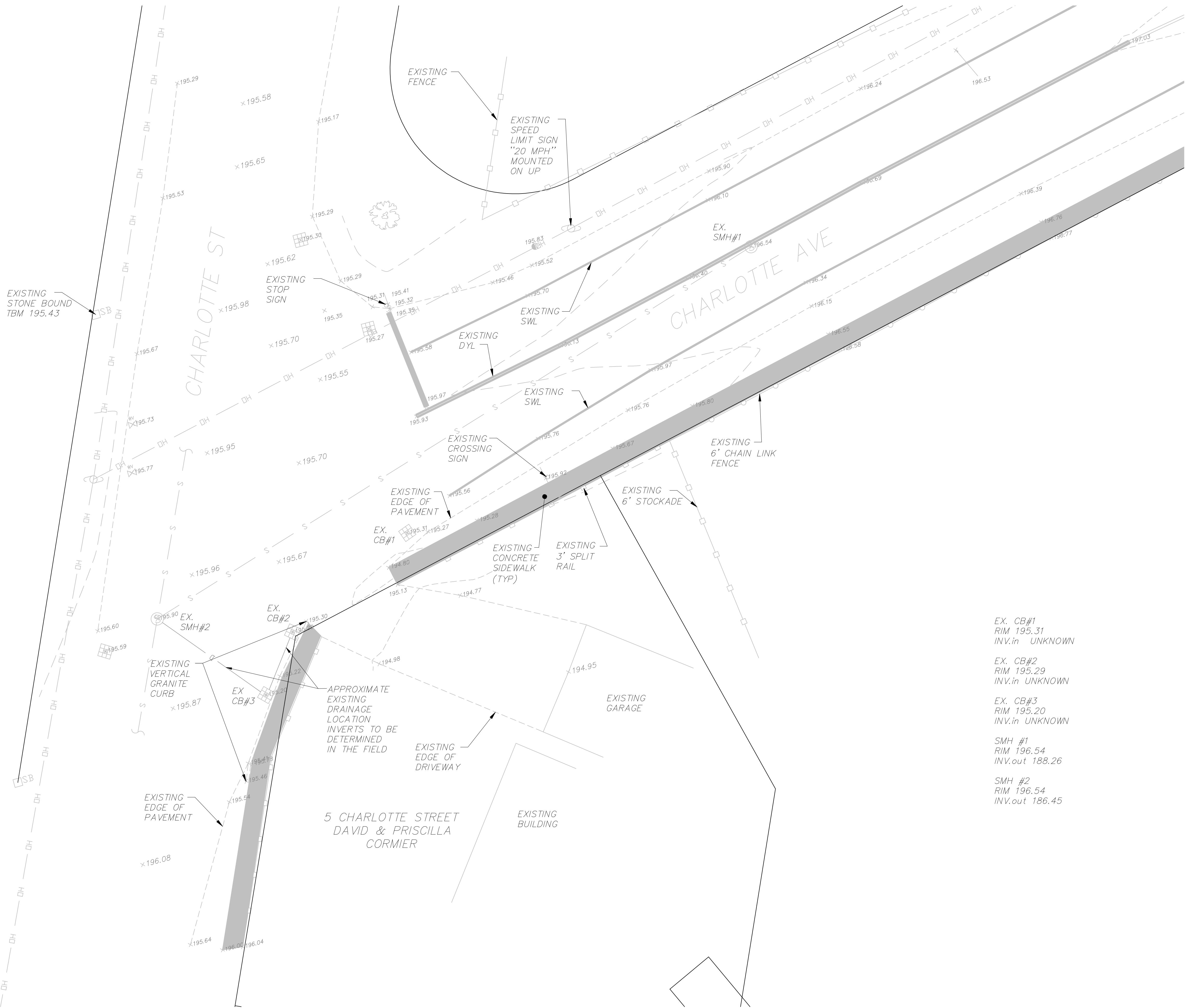
CITY ENGINEER

STEPHEN DOOKRAN, P.E.

Sep 28, 2012

10/01/12 12:08PM BY: BDK/MAE
10/01/12 12:08PM BY: BDK/MAE
DRAWING: S:\DPS\SHARE\ENG DEPT\TRANSPORTATION PROJECTS\CHARLOTTE AVE SIDEWALK.DWG [COVER]

PLOTTED: 09/28/12 2:00PM BY:DHIMAE
DRAWN: 09/28/12 2:00PM BY:DHIMAE
DRAWING: 35.00 PAVING LING DEPT\TRANSPORTATION PROJECTS\CHARLOTTE AVE SIDEWALK.DWG\CHARLOTTE.DWG [EXCON]



EX. CB#1
RIM 195.31
INV.in UNKNOWN

EX. CB#2
RIM 195.29
INV.in UNKNOWN

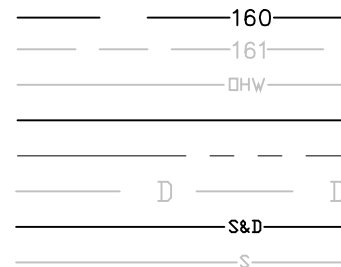
EX. CB#3
RIM 195.20
INV.in UNKNOWN

SMH #1
RIM 196.54
INV.out 188.26

SMH #2
RIM 196.54
INV.out 186.45

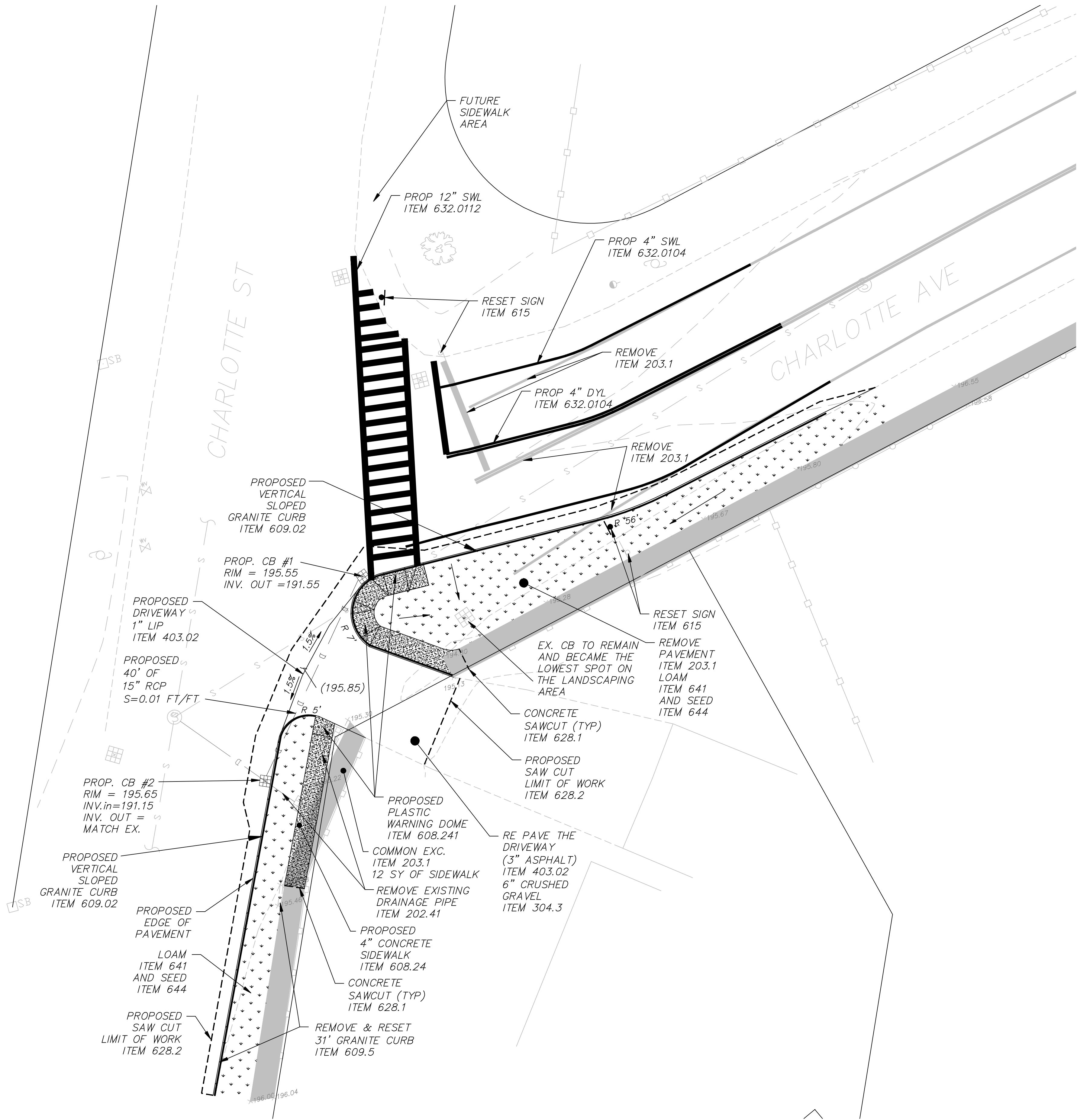
LEGEND

- GAS METER
- GUY WIRE
- UTILITY POLE WITH LIGHT
- UTILITY POLE WITH TRANSFORMER
- GUY POLE
- UTILITY POLE WITH RISER
- UTILITY POLE
- ELECTRIC METER
- ELECTRIC BOX
- TEMPORARY BENCHMARK
- TREE
- SHRUB
- SIGN
- AREA DRAIN
- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- TELEPHONE MANHOLE
- UNKNOWN NO LABLE MANHOLE
- COLUMN
- DRAIN CLEAN OUT
- VALVE
- GAS GATE
- HYDRANT
- WATER GATE
- TREE STUMP
- UNKNOWN NO LABLE TRIANGLE MANHOLE
- CONCRETE CURB
- VERTICAL GRANITE CURB
- CONCRETE RETAINING WALL
- GRANITE RETAINING WALL
- INDEX CONTOURS
- INTERMEDIATE CONTOURS
- OVERHEAD WIRES
- PROPERTY LINE
- ABUTTERS LOT LINES
- DRAIN LINE
- COMBINED SEWER AND DRAIN LINE
- SEWER LINE



| | | |
|---|------|----------|
| | | |
| | | |
| | | |
| NO. | DATE | REVISION |
| NASHUA, NEW HAMPSHIRE EXISTING CONDITIONS CHARLOTTE STREET & CHARLOTTE AVE PREPARED FOR: CITY OF NASHUA, 229 MAIN STREET NASHUA, NEW HAMPSHIRE SCALE: 1" = 10' CITY ENGINEER'S OFFICE SHEET 2 | | |
| DATE: SEPTEMBER 28, 2012 | | |
| W.H E.Z.D E.Z.D | | |
| REVISION DESIGNED DRAFTED | | |

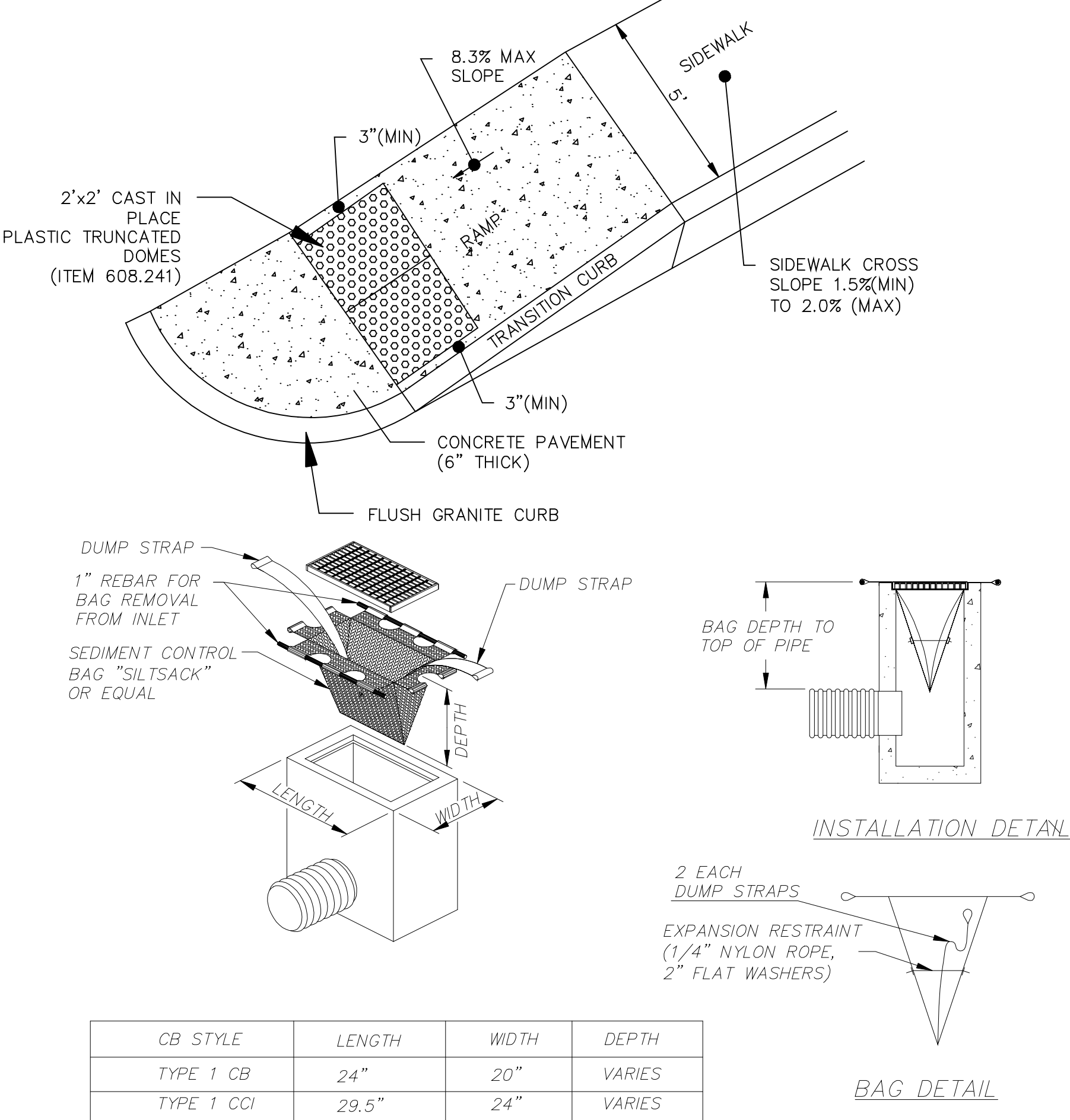
PLOTTED: 09/28/12 2:35PM BY:DHMAE
 LAST SAVED: 09/28/12 11:49AM BY:DHMAE
 DRAWING: S:\PROJECTS\1210\TRANSPORTATION PROJECTS\CHARLOTTE AVE SIDEWALK\DWG\CHARLOTTE DESIGN.DWG [DESIGN]



| NO. | DATE | REVISION |
|---|------|-----------------------|
| NASHUA, NEW HAMPSHIRE PROPOSED CONDITIONS CHARLOTTE STREET & CHARLOTTE AVE PREPARED FOR: CITY OF NASHUA, 229 MAIN STREET NASHUA, NEW HAMPSHIRE SCALE: 1" = 10' DATE: SEPTEMBER 28, 2012 | | |
| CITY ENGINEER'S OFFICE | | |
| SHEET 3 | | W.H E.Z.D E.Z.D |
| REVISION | | DESIGNED |
| | | DRAFTED |

EROSION CONTROL NOTES:

1. EXPOSED EARTHWORK SHALL BE CONFINED TO AS LIMITED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN ONE HALF ACRE OF SITE AREA BE IN AN UNSTABLE CONDITION. NO GIVEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING FIVE CALENDAR DAYS.
2. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELD CONDITION, OR FIELD OPERATION OF OF THE INDIVIDUAL SITE CONTRACTOR MAY WARRANT. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE PERIODICALLY INSPECTED, CLEANED AND MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATIONS MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
3. ALL DISTURBED AREAS DESIGNATED TO BE TURF, SHALL RECEIVE A MINIMUM APPLICATION OF 4-INCHES OF LOAM (COMPACTED THICKNESS), PRIOR TO FINAL SEEDING AND MULCHING.
4. ALL SWALES AND DITCHLINES SHALL BE PERIODICALLY CLEANED OF DEPOSITED SEDIMENT SO AS TO MAINTAIN AN EFFECTIVE GRADE AND CROSS SECTION. ALL SWALES AND DITCHLINES SHALL BE FULLY STABILIZED PRIOR TO HAVING STORMWATER DIRECTED TOWARDS THEM.
5. IN THE EVENT THAT DURING CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR SUITABLE METHODS OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN SURFACES.
6. DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD.
7. IN NO WAY ARE THOSE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGMENT IN INSTALLING SUPPLEMENTARY EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.
8. AREAS HAVING FINISH GRADE SLOPES OF 3 : 1 OR STEEPER, SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED. JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

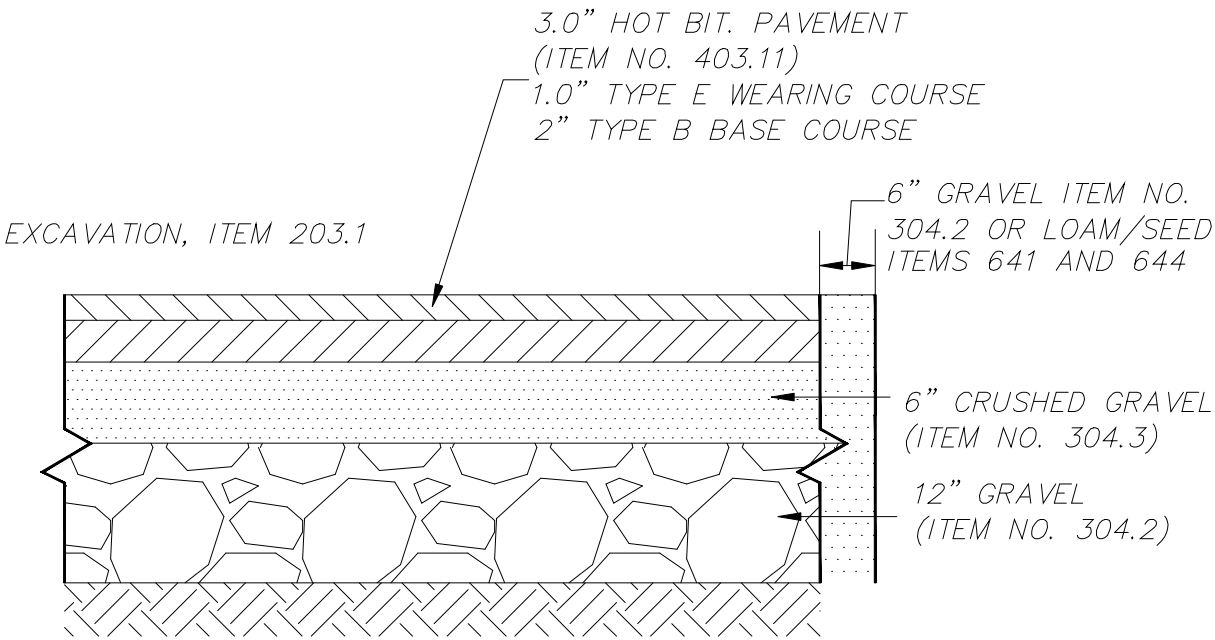


| CB STYLE | LENGTH | WIDTH | DEPTH |
|------------|--------|-------|--------|
| TYPE 1 CB | 24" | 20" | VARIES |
| TYPE 1 CCI | 29.5" | 24" | VARIES |

INLET SEDIMENT CONTROL DEVICE – SILT SACK

NOTES:

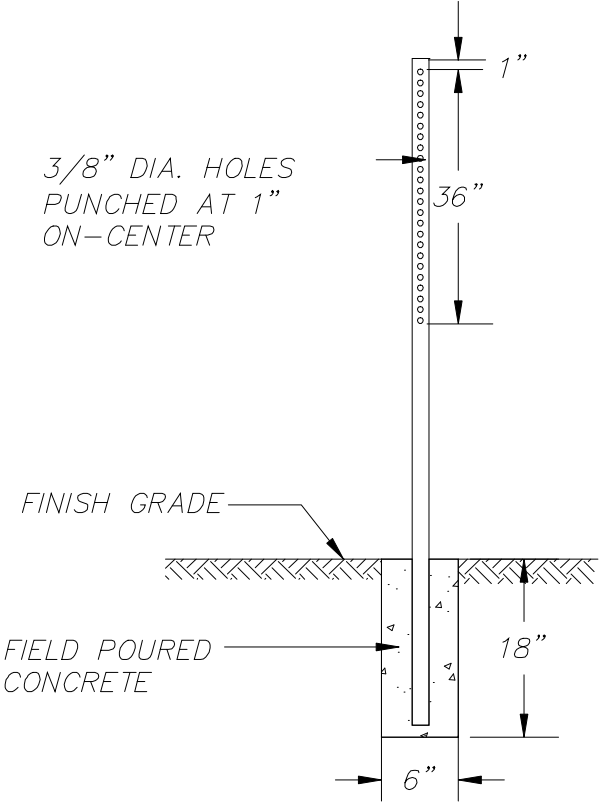
1. THE DIMENSION CHART ABOVE IS FOR STANDARD CATCH BASINS AND INLETS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET.
2. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZE(S).
3. THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN (200 GAL/MIN/FT), AS PER THE MANUFACTURER'S SPECS.
4. THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
5. SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
6. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS, SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
7. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL.
8. SEE INLET PROTECTION NOTES STD. DETAIL E.3.



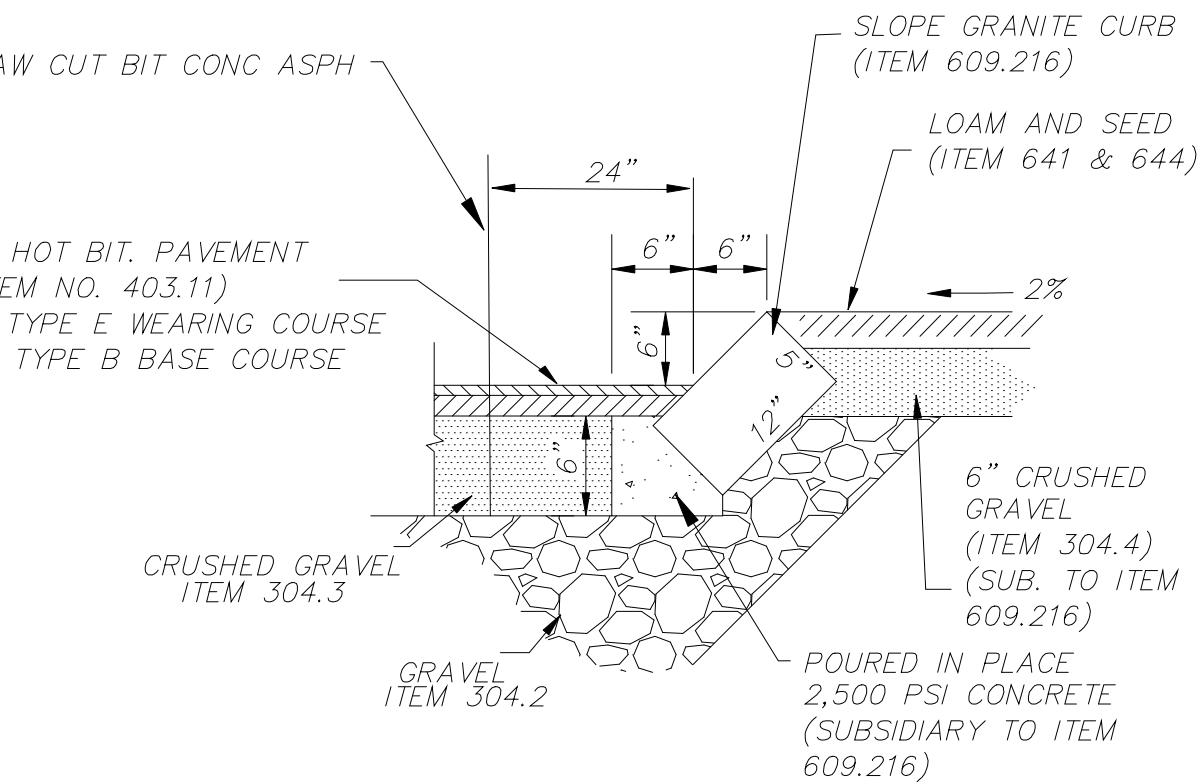
TYPICAL ROAD SECTION
NOT TO SCALE

NOTES:

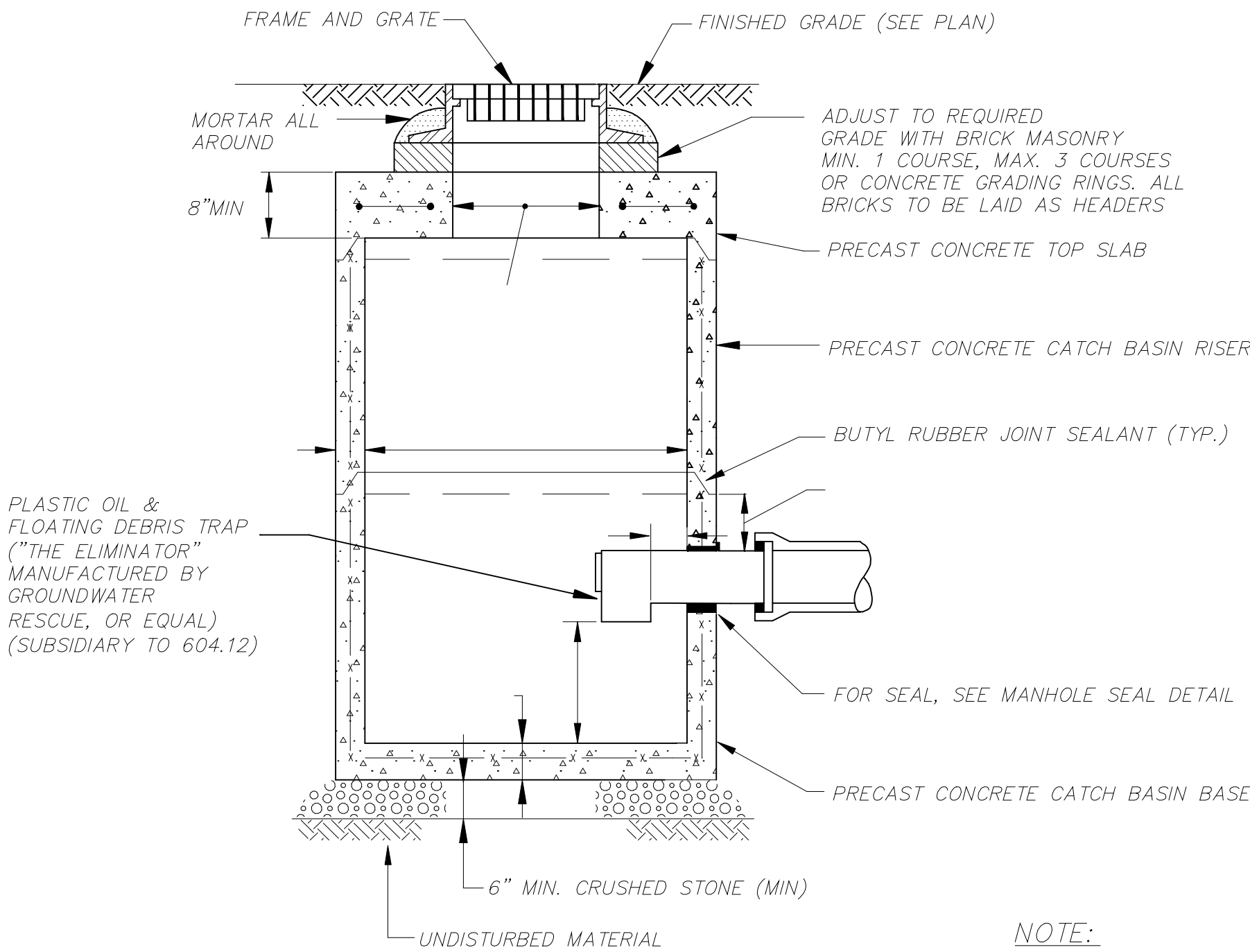
1. THE SIDEWALK SHALL HAVE A MIN SLOPE OF 1.5 % AND NO MORE THAN 2.0%.
2. MAXIMUM AND MINIMUM ALLOWABLE SLOPE OF RAMP SHALL BE 8.3% AND 5.0%.
3. RAMP, ADJACENT PAVEMENT AND CURB SHALL BE GRADED TO PREVENT PONDING.
4. THREE FEET MINIMUM DISTANCE SHALL BE MAINTAINED AT ALL TIMES FROM PERMANENT OBSTACLES IN ACCESSIBLE RAMP.
5. TRUNCATED DOME PANELS SHALL BE INSTALLED IN POURED CONCRETE PLACED WITH A MINIMUM OF THREE INCHES ON EACH SIDE AS SHOWN ON THE DETAIL.
6. PLASTIC DOME CAN BE OBTAINED AT EAST JORDAN IRON WORKS, LOCATED AT 14E UNION STREET, BROCKTON, MA 02302.



REMOVE AND RESET SIGN
ALL MATERIALS AND COMPONENTS
SUBSIDIARY TO ITEM ITEM 615.1
NOT TO SCALE



SLOPE GRANITE DETAIL
NOT TO SCALE



PRECAST CATCH BASIN DETAIL
N.T.S.

NOTE:

STEEL REINFORCING TO MEET OR EXCEED H20 LOADING

TURF ESTABLISHMENT SCHEDULE:

SEED BED PREPARATION:

1. PLACE 4-INCH (MINIMUM) COMPACTED THICKNESS OF CLEAN SUITABLE LOAM.
2. RAKE OUT LOAM TO FREE SOIL OF DEBRIS AND STONES GREATER THAN 1-INCH IN DIAMETER.
3. FINE GRADE SURFACE AND SUPPLEMENT WITH LOAM WHERE NEEDED TO CREATE A UNIFORM SURFACE.
4. APPLY AGRICULTURAL LIMESTONE AT A RATE OF 11-POUNDS PER 1,000 S.F.

SEEDING SPECIFICATIONS:

1. SEED SHALL BE SPREAD UNIFORMLY BY BROADCASTING, DRILLING OR HYDROSEEDING. IF HYDROSEEDING, USE 4-TIMES THE RECOMMENDED RATE OF INOCULANT.
2. SEEDING FOR PERMANENT COVER SHALL OCCUR BETWEEN APRIL 15 AND OCTOBER 1. WHEN SEEDING BETWEEN MAY 15 AND SEPTEMBER 1, ALL AREAS SEEDED SHALL BE MULCHED WITH HAY, STRAW OR OTHER ACCEPTABLE MATERIAL AT A RATE OF 2-TONS PER ACRE.
3. SEED MIXTURE FOR LAWN AREAS SHALL CONTAIN 45% TALL FESCUE, 45% CREEPING RED FESCUE, AND 10% REDTOP APPLIED AT A RATE OF 4.5-POUNDS PER 1,000 S.F.
4. ALL STEEP SLOPE AREAS (3 : 1 OR STEEPER) SHALL BE HYDROSEDED WITH A SEED MIXTURE CONTAINING 25% PERENNIAL RYEGRASS, 50% CROWNVEATCH AND 25% WILDFLOWER MIX APPLIED AT A RATE OF 4.5 POUNDS PER 1,000 S.F.

| NO. | DATE | REVISION |
|---|------|-------------------|
| NASHUA, NEW HAMPSHIRE DETAIL SHEET CHARLOTTE STREET & CHARLOTTE AVE PREPARED FOR: CITY OF NASHUA, 229 MAIN STREET NASHUA, NEW HAMPSHIRE SCALE: NOT TO SCALE DATE: SEPTEMBER 28, 2012 | | |
| CITY ENGINEER'S OFFICE | | |
| SHEET 4 | | W.H REVISION |
| | | E.Z.D DESIGNED |
| | | E.Z.D DRAFTED |